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[Logout](#)
[Interrupt](#)
[Main Menu](#)
[Search Form](#)
[Posting Counts](#)
[Show S Numbers](#)
[Edit S Numbers](#)
[Preferences](#)
[Cases](#)

## Search Results -

Terms	Documents
(water adj soluble) same (polyurethane or urethane) same (package or packaging)	21

Database:

- US Patents Full-Text Database
- US Pre-Grant Publication Full-Text Database
- JPO Abstracts Database
- EPO Abstracts Database
- Derwent World Patents Index
- IBM Technical Disclosure Bulletins

Search:

L1

[Refine Search](#)
[Recall Text](#)
[Clear](#)

## Search History

DATE: Saturday, January 11, 2003    [Printable Copy](#)    [Create Case](#)

Set Name   Query  
side by side

Hit Count   Set Name  
result set

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L1   (water adj soluble) same (polyurethane or urethane) same (package or packaging)

21    L1

END OF SEARCH HISTORY

[Generate Collection](#)[Print](#)

## Search Results - Record(s) 1 through 21 of 21 returned.

☐ 1. Document ID: US 6352762 B1

L1: Entry 1 of 21

File: USPT

Mar 5, 2002

US-PAT-NO: 6352762

DOCUMENT-IDENTIFIER: US 6352762 B1

TITLE: Easily adhesive polyamide film

DATE-ISSUED: March 5, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shimizu; Shinji	Shimomashiki-gun			JP
Yanagida; Masahiro	Yatsushiro			JP
Tominaga; Makio	Yatsushiro			JP
Ichiki; Makoto	Yatsushiro			JP

US-CL-CURRENT: 428/323; 428/331, 428/340, 428/355N, 428/423.5, 428/424.2

## ABSTRACT:

An easily adhesive polyamide film has been created from unstretched or uniaxially stretched non-heated polyamide film coated with a water-base coating mixture, whose main constituents are (A) water polyurethane resin containing acetylene glycol in which each carbon atom immediately adjacent to the triple-bonded carbon atom is replaced with a hydroxyl group and a methyl group, and/or an ethylene oxide addition product of the acetylene glycol; (B) a water-soluble polyepoxy compound; and (C) particles with an average diameter between 0.001 and 1.0  $\mu\text{m}$ , of which the solid-content weight ratio is 98-30/2-70/0.1-10, the coating amount after stretching is between 0.005 and 0.030 g/m.<sup>2</sup>, and the film is stretched in at least one direction and then heated. This newly invented film possesses good blocking resistance and excellent adhesiveness with print ink, laminate, and other coating mixtures, and is especially suitable for boiling sterilization, retort sterilization, and packaging of liquids.

7 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw Desc	Image										

☐ 2. Document ID: US 6316082 B1

L1: Entry 2 of 21

File: USPT

Nov 13, 2001

US-PAT-NO: 6316082

DOCUMENT-IDENTIFIER: US 6316082 B1

TITLE: Laminate structure

DATE-ISSUED: November 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tomkins; Donald William	Charlotte	NC		
Bleasdale; Thomas Anthony	Chorley			GB
Fergusson; Lynn Shona Hardie	Barnton			GB

US-CL-CURRENT: 428/202; 283/100, 283/72, 283/83, 428/913.3, 428/914, 428/915

ABSTRACT:

The present invention relates to the field of laminated materials and, in particular, to laminates (1) for stamping foils and security threads (1). In one aspect there is provided a laminate (1) for a stamping foil comprising a carrier layer, a translucent or transparent coloured first lacquer layer (5), a translucent or transparent second lacquer layer (10) disposed between the carrier layer and the first lacquer layer and a light-reflecting layer (20) adjacent to the first lacquer layer, wherein the first lacquer layer is incomplete in a region substantially in register with an incomplete region in the light-reflecting layer such that the carrier layer is partially covered by the first lacquer layer and the light-reflecting layer (20).

40 Claims, 2 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Drawn Desc	Image									

☐ 3. Document ID: US 6042817 A

L1: Entry 3 of 21

File: USPT

Mar 28, 2000

US-PAT-NO: 6042817

DOCUMENT-IDENTIFIER: US 6042817 A

TITLE: Polyurethane foam lithium hypochlorite composition

DATE-ISSUED: March 28, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Polunsky; Melvin S.	Phoenix	AZ	85021	
Heller; George P.	Irving	TX	75060	

US-CL-CURRENT: 424/76.1; 424/405, 424/484

ABSTRACT:

A chemical composition comprising a polyester based urethane foam material impregnated or coated with an aqueous lithium hypochlorite solution, and optionally containing a quaternary ammonium compound or disodium octaborate tetrahydrate.

27 Claims, 2 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWIC

☐ 4. Document ID: US 5907012 A

L1: Entry 4 of 21

File: USPT

May 25, 1999

US-PAT-NO: 5907012

DOCUMENT-IDENTIFIER: US 5907012 A

TITLE: Water-based polyurethane-urea laminating adhesives and primers

DATE-ISSUED: May 25, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Voss; Peter A.	Plymouth	MN		
Rolando; Thomas E.	Maple Grove	MN		

US-CL-CURRENT: 524/591; 524/507, 524/539, 524/839, 524/840, 525/123, 525/455

ABSTRACT:

Water-based polyurethane-urea polymers having reduced migratory contaminants. The polymers are useful laminating adhesives and primers for flexible packaging having indirect food contact.

22 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWIC

☐ 5. Document ID: US 5494960 A

L1: Entry 5 of 21

File: USPT

Feb 27, 1996

US-PAT-NO: 5494960

DOCUMENT-IDENTIFIER: US 5494960 A

TITLE: Aqueous polyurethane dispersions and adhesives based thereon

DATE-ISSUED: February 27, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rolando; Thomas E.	Maple Grove	MN		
Voss; Peter A.	Plymouth	MN		
Ryan; Christopher M.	Dayton	MN		

US-CL-CURRENT: 524/591; 524/539, 524/839, 524/840

ABSTRACT:

Aqueous polyurethane dispersions used in adhesives for manufacturing laminate structures are provided with improved dispersion properties, which provide improved

shelf-life stability of the dispersion and greater transparency and handling characteristics in application machinery for adhesives formulated therefrom, when a tertiary amine is present during an initial polyurethane prepolymer reaction between an isocyanate and a polyol component having acid functional groups. The initial reaction is carried out prior to formation of the dispersion in water.

16 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Drawn Desc	Image								

KMC

☐ 6. Document ID: US 5468526 A

L1: Entry 6 of 21

File: USPT

Nov 21, 1995

US-PAT-NO: 5468526  
DOCUMENT-IDENTIFIER: US 5468526 A

TITLE: Multilayer barrier film for ostomy applications

DATE-ISSUED: November 21, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Allen; Scott I.	Newark	OH		
Foye; Duane F.	Beaverton	MI		
Ferguson; Michael	Granville	OH		

US-CL-CURRENT: 428/35.4; 156/244.11, 156/308.2, 156/308.4, 206/524.7, 428/349, 428/35.7, 428/355R, 428/424.6, 604/332

ABSTRACT:

An oxygen and moisture impermeable multilayer barrier film is provided including a barrier layer comprising a homopolymer of vinylidene chloride or a copolymer of vinylidene chloride and vinyl chloride or methyl methacrylate. The barrier layer may be coated onto or coextruded with a water soluble film layer comprising a blend of a water soluble polymer such as polyvinyl alcohol, polycaprolactone, or polyethyloxozaline and a thermoplastic polyurethane. The multilayer film may be used for reusable or disposable ostomy bags and for heat sealable bags used in packaging agricultural chemicals, detergents, and other household chemicals.

10 Claims, 2 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Drawn Desc	Image								

KMC

☐ 7. Document ID: US 5445274 A

L1: Entry 7 of 21

File: USPT

Aug 29, 1995

US-PAT-NO: 5445274  
DOCUMENT-IDENTIFIER: US 5445274 A

TITLE: Inflatable package insert

DATE-ISSUED: August 29, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pharo; Daniel A.	Valencia	CA	91355	

US-CL-CURRENT: 206/522; 383/3

ABSTRACT:

An improved packaging system comprises several modifications of an inflatable package utilizing pressurized air to protect and cushion products for shipment. The improvements consist of novel flexible pouches, designed to fit corrugated shipping cartons, wooden crates and steel of molded plastic shipping containers. The product is inserted or placed within the perimeters of a support means such as a carton or box and pressurized air is injected into adjacent compartments in the bag to suspend or hold a product in a protected manner.

3 Claims, 15 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Drawn Desc	Image									

☐ 8. Document ID: US 4982467 A

L1: Entry 8 of 21

File: USPT

Jan 8, 1991

US-PAT-NO: 4982467

DOCUMENT-IDENTIFIER: US 4982467 A

TITLE: Rinse release laundry additive and dispenser

DATE-ISSUED: January 8, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mizusawa; Eugene A.	Castro Valley	CA		
Paone; Donald J.	Hayward	CA		
Casella; Tracey L.	Martinez	CA		
Flores; Dorothy L.	Livermore	CA		
Choy; Clement K.	Walnut Creek	CA		
Gerritsen; Jan	Walnut Creek	CA		

US-CL-CURRENT: 8/158; 8/159

ABSTRACT:

A wash additive combination is provided which is loaded into a washing machine at the start of a wash cycle, and which releases a wash additive, such as a fabric softener, into the rinse solution. The combination comprises a wash additive packet of a foam substrate material having a first and a second stable conformation of differing surface area, and a wash additive deposited thereon. A dispenser is provided for mounting atop a washing machine agitator, and into which the packet may be releasably placed, after arranging the packet in its lesser surface area conformation. The packet is retained by the dispenser during initial phases of the wash cycle, and ejected during the spin phase, whereupon it regains its greater surface area conformation for rapid and

complete dispersion of active. Embodiments are provided for dual, sequential release of active in the rinse and the dryer.

3 Claims, 5 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 9. Document ID: US 4950475 A

L1: Entry 9 of 21

File: USPT

Aug 21, 1990

US-PAT-NO: 4950475  
DOCUMENT-IDENTIFIER: US 4950475 A

TITLE: Novel film-forming gels with high concentrations of humectants and emollients

DATE-ISSUED: August 21, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vishnupad; Mohan	Monroe	CT		
Ramirez; Jose	Trumbull	CT		

US-CL-CURRENT: 514/772.3; 261/DIG.88, 514/23, 514/506, 514/588, 514/944, 514/953

ABSTRACT:

Novel film-forming gel compositions are described comprising from 10-40% by weight of a water dissipatable polymer, from 10 to 40% by weight of humectants and 20-60% by weight of water. The gel compositions may also be in the form of an emulsion comprising from 15-30% by weight of a water dissipatable polymer, from 15 to 35% by weight of humectants, up to 40% by weight of emollients, from 15 to 35% by weight water and a small amount of emulsifier. Additionally the gels of the present invention may contain optional agents such as, for example, coloring agents, pigments, preservatives, medical agents, cosmetic agents or agents to modify the refractive index of the gel.

6 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 10. Document ID: US 4882917 A

L1: Entry 10 of 21

File: USPT

Nov 28, 1989

US-PAT-NO: 4882917  
DOCUMENT-IDENTIFIER: US 4882917 A

TITLE: Rinse release laundry additive and dispenser

DATE-ISSUED: November 28, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mizusawa; Eugene A.	Castro Valley	CA		
Paone; Donald J.	Hayward	CA		
Casella; Tracey L.	Martinez	CA		
Flores; Dorothy L.	Livermore	CA		
Choy; Clement K.	Walnut Creek	CA		
Gerritsen; Jan	Walnut Creek	CA		
Heiskell; Ronald E.	Tracy	CA		
Deweese; Thomas G.	Pleasanton	CA		
Ellgen; Jon L.	Pleasant Hill	CA		

US-CL-CURRENT: 68/17A; 510/439, 510/520, 510/521

ABSTRACT:

A wash additive combination is provided which is loaded into a washing machine at the start of a wash cycle, and which releases a wash additive, such as a fabric softener, into the rinse solution. The combination comprises a wash additive packet of a foam substrate material having a first and a second stable conformation of differing surface area, and a wash additive deposited thereon. A dispenser is provided for mounting atop a washing machine agitator, and into which the packet may be releasably placed, after arranging the packet in its lesser surface area conformation. The packet is retained by the dispenser during initial phases of the wash cycle, and ejected during the spin phase, whereupon it regains its greater surface area conformation for rapid and complete dispersion of active. Embodiments are provided for dual, sequential release of active in the rinse and the dryer.

19 Claims, 5 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 11. Document ID: US 4627424 A

L1: Entry 11 of 21

File: USPT

Dec 9, 1986

US-PAT-NO: 4627424

DOCUMENT-IDENTIFIER: US 4627424 A

TITLE: Cold water curable orthopedic cast

DATE-ISSUED: December 9, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baron; Kenneth S.	San Ramon	CA		
Wood; David W.	San Francisco	CA		

US-CL-CURRENT: 602/8; 528/75

ABSTRACT:

A bandage material for forming in place an orthopedic cast comprising a pliant, large mesh fabric carrier formed from a knit of a high-strength, high-modulus fiberglass yarn with a low moisture pick-up, the fabric carrier having openings of relatively large transverse dimension, and being coated with a polymer composition comprising a cold water curable polyurethane prepolymer comprising the reaction product of a polyalkylene



ether diol, a polyalkylene ether triol and a diisocyanate.

9 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWIC

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☐ 12. Document ID: US 4427002 A

L1: Entry 12 of 21

File: USPT

Jan 24, 1984

US-PAT-NO: 4427002

DOCUMENT-IDENTIFIER: US 4427002 A

TITLE: Cold water curable orthopedic cast

DATE-ISSUED: January 24, 1984

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baron; Kenneth S.	San Ramon	CA		
Wood; David W.	San Francisco	CA		

US-CL-CURRENT: 602/8; 523/111, 528/75

ABSTRACT:

A bandage material for forming in place an orthopedic cast comprising a pliant, large mesh fabric carrier formed from a knit of a high-strength, high-modulus yarn with a low moisture pick-up, the fabric carrier having openings of relatively large transverse dimension, and being coated with a polymer composition comprising a cold water curable polyurethane prepolymer comprising the reaction product of a polyalkylene ether diol, a polyalkylene ether triol and a diisocyanate.

23 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWIC

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☐ 13. Document ID: US 3982986 A

L1: Entry 13 of 21

File: USPT

Sep 28, 1976

US-PAT-NO: 3982986

DOCUMENT-IDENTIFIER: US 3982986 A

TITLE: Laminates and method of making them

DATE-ISSUED: September 28, 1976

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stone; Edward	Morris Plains	NJ		
Zamer; Joseph	Paramus	NJ		
Guagliardo; Matthew	Bloomfield	NJ		

US-CL-CURRENT: 156/331.7; 156/315, 427/412.4, 428/424.6, 428/424.8, 428/516, 428/518, 528/49, 528/61

ABSTRACT:

Saran films, or saran coated films or substrates are laminated to treated polyethylene films or surfaces, or to other saran surfaces by means of thermoplastic polyether polyurethanes applied to the substrates as aqueous solutions by conventional laminating techniques. Also, treated polyethylene surfaces are laminated together with the thermoplastic polyurethanes.

7 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Image									

☐ 14. Document ID: US 3935467 A

L1: Entry 14 of 21

File: USPT

Jan 27, 1976

US-PAT-NO: 3935467

DOCUMENT-IDENTIFIER: US 3935467 A

TITLE: Repository for fissile materials

DATE-ISSUED: January 27, 1976

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gablin; Kenneth A.	Tacoma	WA		

US-CL-CURRENT: 250/507.1; 250/515.1, 588/16, 588/17, 976/DIG.330, 976/DIG.343

ABSTRACT:

A repository for holding and storing fissile or other hazardous materials either under or above the ground is provided by enclosing one or more inner containers, such as standard steel drums, in a larger, corrosion-resistant outer shell, with a layer of foamed polyurethane occupying the space therebetween. The polyurethane foam is free of voids at its interfaces with the inner container and outer shell, and adheres to and reinforces same to provide a stress skin structure. Protection is afforded by the chemical and physical characteristics of the polyurethane foam against destructive influences such as water vapor intrusion, package leakage and damaging effects of the environment, such as freezing, electrolysis, chemical and bacterial action. The outer shell is shaped to conform generally to the shape of the inner container and is made of a tube of bituminized fibre material with endcaps of exterior grade plywood treated with wood preservative. A quantity of fluorescein dye is positioned within the inner container for monitoring each package for leakage.

5 Claims, 3 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KVMC
Draw Desc	Image									

☐ 15. Document ID: US 3932561 A

L1: Entry 15 of 21

File: USPT

Jan 13, 1976

US-PAT-NO: 3932561

DOCUMENT-IDENTIFIER: US 3932561 A

TITLE: Adhesives comprising solutions of a mixture of a terpene urethane resin with thermoplastic polyether polyurethanes containing tertiary amine group

DATE-ISSUED: January 13, 1976

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zamer; Joseph	Paramus	NJ		

US-CL-CURRENT: 525/458; 156/331.7, 428/424.6, 428/424.8, 428/428, 528/49, 528/68, 528/78, 528/85, 528/905

ABSTRACT:

Adhesives for laminating saran film or saran coated surfaces to polypropylene or polyethylene films or surfaces are disclosed. The adhesives comprise solutions of a mixture of a terpene urethane resin with certain thermoplastic polyether polyurethanes.

6 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KVMC
Draw Desc	Image									

☐ 16. Document ID: US 3887757 A

L1: Entry 16 of 21

File: USPT

Jun 3, 1975

US-PAT-NO: 3887757

DOCUMENT-IDENTIFIER: US 3887757 A

TITLE: Laminates having a polyurethane adhesive

DATE-ISSUED: June 3, 1975

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stone; Edward	Morris Plains	NJ		
Zamer; Joseph	Paramus	NJ		
Guagliardo; Matthew	Bloomfield	NJ		
Wieland; Kenneth F.	Pompton Plains	NJ		

US-CL-CURRENT: 428/424.6; 156/331.4, 156/331.7, 428/424.8, 428/516, 428/518, 428/520, 528/58, 528/85, 528/905

ABSTRACT:

Saran films, or saran coated films or substrates are laminated to treated polyethylene films or surfaces, or to other saran surfaces by means of thermoplastic polyether polyurethanes applied to the substrates as aqueous solutions by conventional laminating techniques. Also, treated polyethylene surfaces are laminated together with the thermoplastic polyurethanes.

6 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

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☐ 17. Document ID: US 3887755 A

L1: Entry 17 of 21

File: USPT

Jun 3, 1975

US-PAT-NO: 3887755  
DOCUMENT-IDENTIFIER: US 3887755 A

TITLE: Laminating adhesives

DATE-ISSUED: June 3, 1975

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zamer; Joseph	Paramus	NJ		

US-CL-CURRENT: 428/424.6; 156/331.7, 428/424.8, 428/516, 524/365, 525/457, 528/58, 528/85, 528/905

ABSTRACT:

Adhesives for laminating saran film or saran coated surfaces to polypropylene or polyethylene films or surfaces are disclosed. The adhesives comprise solutions of a mixture of a terpene urethane resin with certain thermoplastic polyether polyurethanes.

6 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

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☐ 18. Document ID: US 3864345 A

L1: Entry 18 of 21

File: USPT

Feb 4, 1975

US-PAT-NO: 3864345  
DOCUMENT-IDENTIFIER: US 3864345 A

TITLE: Process for preparing novel N-(piperazinyloethyl)-carbamates

DATE-ISSUED: February 4, 1975

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Abbate; Franklin W.	North Haven	CT		
Farrissey, Jr.; William J.	North Haven	CT		

US-CL-CURRENT: 544/400; 544/393

ABSTRACT:

N-(piperazinyloethyl)-carbamates are prepared in good yield by reacting at an elevated temperature an N-hydrocarbylcarbamate with triethylenediamine or an N-hydrocarbylcarbamate, triethylenediamine and an added alkylating agent. The N-piperazinyl derivatives so-formed are useful as catalysts in the manufacture of polyurethanes, in the preparation of acid-soluble and acid-dyeable polyurethanes.

10 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Image									

☐ 19. Document ID: US 3855226 A

L1: Entry 19 of 21

File: USPT

Dec 17, 1974

US-PAT-NO: 3855226

DOCUMENT-IDENTIFIER: US 3855226 A

TITLE: PROCESS OF PREPARING NOVEL PIPERAZINYLETHYL CARBAMATES

DATE-ISSUED: December 17, 1974

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Abbate; Franklin W.	North Haven	CT		
Farrissey, Jr.; William J.	Northford	CT		

US-CL-CURRENT: 544/400

ABSTRACT:

Piperazinyl ethyl carbamates are obtained in good yield by reacting an N,N-dihydrocarbylcarbamate with triethylenediamine at an elevated temperature. The piperazinyl derivatives so formed are useful in the preparation of acid-soluble and acid-dyeable polyurethanes and as catalysts in the manufacture of polyurethanes.

2 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Image									

☐ 20. Document ID: US 3719680 A

L1: Entry 20 of 21

File: USPT

Mar 6, 1973

US-PAT-NO: 3719680

DOCUMENT-IDENTIFIER: US 3719680 A

TITLE: NOVEL N-(PIPERAZINYLETHYL)-CARBAMATES

DATE-ISSUED: March 6, 1973

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Abbate; Franklin W.	North Haven	CT		
Farrissey, Jr.; William J.	Northford	CT		

US-CL-CURRENT: 544/400

ABSTRACT:

N-(piperazinyethyl)-carbamates are prepared in good yield by reacting at an elevated temperature an N-hydrocarbylcarbamate with triethylenediamine or an N-hydrocarbylcarbamate, triethylenediamine and an added alkylating agent. The N-piperazinyethyl derivatives so-formed are useful as catalysts in the manufacture of polyurethanes, in the preparation of acid-soluble and acid-dyeable polyurethanes.

4 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw Desc	Image									

☐ 21. Document ID: US 3704072 A

L1: Entry 21 of 21

File: USPT

Nov 28, 1972

US-PAT-NO: 3704072

DOCUMENT-IDENTIFIER: US 3704072 A

TITLE: IMPLEMENTS (III)

DATE-ISSUED: November 28, 1972

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kaufman; Jack W.	Merrick, L. I.	NY		

US-CL-CURRENT: 401/291; 401/132, 401/201, 401/28

ABSTRACT:

Implements, as for cleansing by scrubbing with the use of a cleansing compound, such as for surgical post or preoperative scrubbing with a germicidal soap comprising, means for providing rubbing type scrubbing action, for example, a pored surface or a plurality of bristle-like elements, such as Velcro or brush bristles and a quantity of compound, for example, a cleansing compound such as a germicidal soap compound associated therewith, for example, by direct coating on the scrubbing means or by being contained within a dispensing type reservoir for application to the scrubbing means, such as being contained within a block of resilient foam-like material or within a flexible walled container whereby pressure on the container or foam block will cause dispensing of the cleansing compound outwardly thereof and onto the scrubbing means, the foam block or container being either permanently associated with the scrubbing means to define a throw-away type implement or the block or container being replaceably associated therewith to enable retention of the scrubbing means with replacement of the container or block, such block or throw-away implement being preferably furnished with protective covering means during transport, storage and prior to usage thereof, such as a peelable or strippable layer of waterproof adhesively secured material or a layer of water-soluble material. The size, shape and density of the brush bristle array permits

the implement to function not only as a general personal scrubbing brush, but also as scrubbing apparatus for pre- and post-surgical applications. The implement includes a longitudinally flexible handle which is adapted to hold the dispensing type reservoir and be bent to the contour of the surface being scrubbed.

11 Claims, 29 Drawing figures Number of Drawing Sheets: 4

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